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MEMORARDUM TO: Chief, Military-Economic Division, ORR

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FROM

Chief, CIA/PID (NPIC)

Declass Review by NGA.

SUBJECT

Shen-Yang Aircraft Engine Plant 410

REFERENCE

: Requirement No. RR/91/63 Project Ma. C 535/63 7

- 1. This memorandum is in ensuer to referenced requirement concerning Shen-Yang Aircraft Engine Plant.
- 2. This study primarily concerns two areas: one the main plant of Chen-Yong Arsenal 90th and Shan-Yong Aircraft Engine Plant #910. The following paragraphs contain a description of each plant area and a list of annotations for each area. These annotations are keyed to photo enlargements Enclosures Al and 12.
- 3. Shon-Yang Arsenal 30th

Shen-Yang Arsenal is located in the Ta Tung ward of Ehen-Yeng at coordinates 41047'27"3/123029'30"E. The arcenal is served by a rail line and seven rail spurs. The entire arcenal area to enclosed by a masonry wall approximately and all entrances appear to be well secured. The total estimated floorspace is 3,110,005 equare feet which is contained within assembly buildings, machine chops, workshops, administration buildings, boiler bouses, test facilities, warehouses and storage buildings. All baildings in the arsenal were included in the total estimated floorspace but only major tur in a have been annotated.

photography was reviewed and communistic made with photography. This comparison shows ... complete rehabilitation of the entire arsenal. A further comparison we con lucted between 1956 photography and This comparison revealed the construction or new buildings and the modification of come older buildings. These changes are indicated by the red stars (Enclosure #1). Additional changes occurred between These changes were the construction of a new building (Arnotation #55, Enclosure fl and Innotation fl Enclosure #2) and

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and the partial completion of two wings on the engine test building at Annotation A. The unusual features at this plant are located at Annotation A, Annotation B, Annotation 589 (Enclosure #1) and Annotation #1 (Enclosure #2). The following is a description of each of the aforementioned symptetions. Annotation A; this building has been identified as a test facility for an unidentified engine. Construction started possibly in early 1961 and the building was approximately 90 percent complete on 25X The building is multi-vinged with the base wing measuring 470' x 65'. There are seven projecting wings, two of which are under construction and measure 65' x 30' and are probably single test bays, one measures 150' x 25' and is probably a single test bey and four measure 150' x 55', three are probably double test bays and the fourth a single test bay with an additional servicing area. The seven wings are served by individual exhaust towers approximately 65 to 75 feet above ground level. Amnotation B; this area concist of three buildings one large and two smaller buildings. The large building was a former thermal electric power plant, to house three engine test cells. which has been converted since The two smaller buildings are new since 1995 but are prior to one building houses a large test cell and the other is an unidentified building. The three buildings are connected by pipeline. Annotation #39; the function of this building is unknown. It is adjacent to the transformer yard (Annotation \$30) but separated by an additional fence. The building appears to have been modified between 25X The measurements are 125' x 50' and the roof has two levels with the south section being approximately 50 to 55 feet tall. tall section is rail zerved. Annotation #1 (Enclosure #2) This is a new building and its function is unknown. The foundation was started on 25X (Annotation \$56). The building and completed The building measures was completed on approximately 150' x 75' and is approximately 60 to 70 feet tall. Amotation #83 (Enclosure #1) shows four unidentified objects mounted on rail flatcars. all have the same These objects are approximately 25X | enove five unidentified chjects configuration. Photography 25X1 (Annotation #2, Duclosure #2), in the same general area, these are not mounted on flateurs, and only one has the same configuration as the four located at angutation 388. The object located approximately 200 feet south of the other Tour along the road between rail spure appears to be mounted on a trailer, possibly a lowboy type and is connected to an unidentified prime mover. The trailer is capvas covered and has an irregular shape, measurements are 25X1 feet long approximately

Excluded from

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## MEN TO APPOTATIONS: SHEM-YARS ANDERAL SOTE EXCLOSURE #1

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665' z 490'
  1. Assembly building
                                       655' x 275'
 2. Assembly bullding
                                        70° z 330°
  .. Assembly building
  w. Ascembly building
                                        425" II 250"
  5. Assembly building
                                       ##0, = 130,
240, = 520,
330, = 550,
 6. Assembly building
 7. Asscably building
  8. Assembly building
9. Workshop
10. Workshop and storage yard
205' x 115' - 270' x 130'
11. Possible forge or exelter
200' x 50'
                                320' x 35' - 85' x 80'
310' x 30' - 70' x 25' - 70' x 25'
210' x 375'
12. Workshop
 13. Administration building
14. Workshop and Eaching shop
                                       210° 22 75°
19. Workshop
                                      215' ± 135'
320' ± 135'
16. Machine shop and Workshop
17. Machine chop and Workshop
                                        320° x 150°
 18. Machine shop
                                       215° z 150°
19. Nuchine shop
                                       240' x 135'
20. Machine shop
                                       175° 22 85°
21. Machine shop
                                       240' n 150'
22. Storage building
                                       240, x 132,
23. Machine shop
                                       345' m 135'
24. Nachine shop
                                        160' x 90'
25. Storage building
                                        710. x 80.
26. Storage building
                                       150' E 120'
27. Machine shop
                                       140° z 120°
28. Storage building
29. Storage building
                                        145' x 105'
                                       95' x 90'
160' x 65'
 30. U/I building
 31. U/I building
                                       240° x 65°
 32. Horkshop
 33. Storage building
                                       220' x 75"
                                       205° x 125°
 34. Machine shop
                                       . 205" $ 65"
 35. Horkshop
                                       220" :: 150"
35. Machine shop
                                        240° x 35°
 37. Finaible forge
39. Administration building
                                       150' x 35'
39. Forheliop
                                       200' at 85'
10. Builer house and coal stockpile
                                        120' 3 95'
Wi. Machine shop
                                        170° z 50'
42. Harring shop
                                        160' x 50'
43. Three administration buildings
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W. Administration and possible laboratory buildings

45. Possible laboratory baildings

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46. Pive unidentified service buildings
47. Administration building
                                            95' x 55'
48. Administration and security building 370' x 40'
W. Notor vehicle storage and repair shed 200' x 70'
50. Fifteen fenced socrage buildings
                                            76' x 15' each
51. Storage building
52. Power Plant and coal stockpile
                                            175' z 150'
53. Workshop
                                            195° 22 50°
54. Workshop
                                            225' x 105'
55. Workshop
                                           340' = 105°
55. Reducation for new building
57. Storage building
                                           200° x 40°
58. Storage buildings
59. Storage buildings
60. Security buildings and guard quarters
61. Workshop and Machine shop
                                         195' x 130' - 150' x 75'
62. Cantry crabe
63. Stornge building
                                           135' z 40'
54. Storage buildings
55. Storage building
                                           229 × 40
55. Underground FOL reservoir, pumping and control station
67. Seven storage buildings
co. Three varehouses
o). Unidentified building, within a secured area
70. Two large and two small warehouses
71. Two workshops
72. Maintance shops and storage buildings
73. Warehouse
                                           350' x 80'
7%. Storage building
                                           65° x 30*
75. Two large warehousen
75. Five warehouses
77. Sin storage sheds and two large varehouses
78. Two warehouses and four storage sheds
79. Two varchouses and one unidentified building
80. Four varehouses
Öl. Open storage yard and two gantry cranes
82. Centry crane and possible shipping and receiving building
83. Fire warehouses
84. Four warehouses
85. Administration and six unidentified service buildings
55. Three water reservoirs
87. Administration building and storage buildings
88. Four unidentified objects on flatcard
8). Possible test building
                                           125" x 50"
30. Transforser yard
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A.	Rost building
	Test Area, three buildings
KU	TO AMERITATIONS: CHEELYANG ARSENAL JOLD MICLOSURE #2
41 3347/	. To more than the second of t
1,	New building, function unknown, 150' x 75' by approximately 60-70
	feet tall. Erected between Poundation started
2.	Unidentified objects, one the same as shown or
3.	Engine test building, two wings partially completed between
<b>3.</b>	Construction started possibly in early 1961.
<i>₹</i>	Former thermal electric power plant converted to test cell building prior to 1961 and after 1996.
	b. Shen-Yang Aircraft Engine Plant:
	AND THE STATE OF T
She	Shen-Yang Aircraft Engine Plant is located in the Ta Tung word of n-Yang adjacent to Shen-Yang Argenal 90th and Shen-Yang Airfield Southeast.
The	coordinates are \$1 47'22" N/123 30'25"E. The plant area is enclosed by a
Tall C	only wall approximately high. The Engine Plant is served by the
#an	e rail line which serves the arcenal. This study was conducted from the
Past Nast	e photography utilized in the study of Shen-Yang Arsenal. The Engine Flant
Yer	a total estimated floor space of 955, 475 square feet. All buildings of included in the total estimated floor space, only the major buildings have
-	a annotated. This plant was rehabilitated between 1945 and 1956. A compar-
pag	a between 1955 photography and   shows the construction of
isc	
iso thr	se new buildings which are indicated by the red stars (Enclosure (1). The
iso thr	ldings located at Annotations #1 and #3 were constructed prior to
iso thr bui	ldings located at Annotations #1 and #3 were constructed prior to
isc thr bui	Idings located at Annotations #1 and #3 were constructed prior to
iso thr bui was	Idings located at Annotations #1 and #3 were constructed prior to  The power plant located at annotation #45  under construction on and was about 50 percent camplete  The power plant is shown on and is in
iso thr bui Was oa [ the	Idings located at Annotations #1 and #3 were constructed prior to
iso thr bui  Was on the	Idings located at Annotations #1 and #3 were constructed prior to
ico thr bui  Was ca [ the ca [	The power plant located at annotation of the power plant located at annotation of the power plant located at annotation of the power plant is shown on the final stages of completion. The Engine test building at Annotation D takes six test cells. The test cell on the northern end of the building and an annotation of the power plant is shown on the possible cleared blast area, in the rear of the test
tec thr bui was the cou	The power plant located at annotation of the power plant located at annotation of the power plant located at annotation of the power plant is shown on the power plant is shown on the final stages of completion. The Engine test building at Annotation D takes six test cells. The test cell on the northern end of the building and and in the power plant is shown on the position of the building and the position on the northern end of the building and an interpolation of the test possers to be a possible cleared blast area, in the rear of the test nonticued above (Annotation of Enclosure f2). This construction and
ico thr bui Was ca [ the cou	The power plant located at annotation of the power plant located at annotation of the power plant located at annotation of the power plant is shown on the final stages of completion. The Engine test building at Annotation D takes six test cells. The test cell on the northern end of the building and an annotation of the power plant is shown on the possible cleared blast area, in the rear of the test

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## KEY TO ANNOTATIONS: SHEEL-YARG AIRCRAFT ENGINE PLANT ENCLOSURE #1

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1. Storage building
                                        250' x 110'
  2. Workshop and storage
                                        360° z 185°
                                       130° x 70°
325° x 200°
170° x 145°
  3. Storage building
  4. Assembly and machine shop
  5. Machine shop and workshop
  b. Foundry
                                        185' x 185'
  7. Poiler house
                                         135° x 55°
  8. Administration building
                                      160, x 42,
  9. Storage building
.10: Assembly building
                                     530' x 220'
500' x 170'
300' z 150'
11. Assembly and Machine shop
12. Assembly building
13. Workshops
                                        170° x 115°
                                      200, n 72,
500, n 720,
500, n 72,
14. Storage buildings
15. Assembly building
15. Storage building
17. Accimistration
                                        230' x 55' - 200' x 40' - 100' x 40' -
                                        100, x 40.
18. Maintonee shops
19. Storage building
                                        100' z 30',
                                        150' x 55'
20. Administration building
                                         75° x 75°
21. Storage building
22. Administration buildings
23. Administration buildings
24. Two warehouses
25. Pover plant under construction
25. Four vanchouses
27. Machine shop
                                        165° x 110°
28. Workshop
29. Workshop
                                        230, 11 700,
                                        135' x 135'
30. Storege building
                                         100° z 35°
31. Storege building 32. Varehouse
                                        85° × 40°
                                         150' 2 45'
33. Underground POL reservoir, pumping and control station
34. Three large warehouses and two storage sheds
35. Boiler house 130' x 508
 D. Test Cell building
 E. Additional Administration area
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F. Shen-Yang Airfield southeast and support area

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,	KEY TO AUTOTATIOUS: SHEE-YANG AIRCRAFT ENGINE	PLANT ENCLOSURE //2	
4	5. Test cell building - one test cell modified constructed between	eore teald oldieseq a bas i	
I	6. Power plant - construction began on	annerication so recent	2-
1	complete on and is nearing complete	ion on	25)
•	7. Dismantled Mig-19 and Shen-Yang Airfield S:		
	5. Summary		
	Shen-Yeng Aircraft Engine Plant Skio		
	definitly interrelated in their production act:	ivities. A more complete	
	evaluation of production activities at these to	or plants campat be determined	
	from present photography. Additional photographer a complete enalysis of the engine test fac-	ilities. The ersenal may still	
	be engaged in the production of answert. The	eircreft cigino plant may or	
	may not be producing direraft engines as a prin	many product. Airframe production	
	is possible but doubtful since the entrances of	Y the final assembly sections on	
•	the assembly buildings are not vide enough to a	facilities of the adacest Show	
	Yang Airfield Southeast, (See Annotation F Enc.	locure of and ann-tation of	
1	Enclosure \$2). Each of the Missions used :	is this study shows a notable	
	increase in overall activity at both plantc.		
	6. The following photographic references	are included to illustrate the	
	number of phytographic missions and the time of	pan included in this study:	
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	7. The photo analyst on this project is	apo may pa	25)
1		rther questions regarding this	٠.
	project.		
	wed.	•	
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	2. CE:/FID/IB-P-117/63		

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